

1 ABSTRACT

2 A diagnostic apparatus of a valve timing control system
3 in which a valve timing is variably controlled by changing a
4 rotational phase between a crankshaft and a cam shaft of an engine,
5 comprises means for detecting a fluctuation of engine speeds of
6 the engine following a change of engine operating conditions and
7 for calculating a diagnosis value based on the fluctuation; and
8 means for comparing the diagnosis value with a preestablished
9 threshold value and for judging that a failure occurs in the valve
10 timing control system, in case where the diagnosis value exceeds
11 the threshold value.